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AUTHOR(S):

Nakamura, Michio

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Masturbation with a Tool by an Infant Male Chimpanzee

Michio Nakamura

Graduate School of Science, Kyoto University, Japan
(E-mail: nakamura@jinrui.zool.kyoto-u.ac.jp)

INTRODUCTION

Here I report a case of “masturbation” with a tool by a wild infant chimpanzee. More accurately, the infant male inserted his erect penis into a wadge discarded by an adult male and performed several thrusts, as if he was copulating with the wadge. The observed “masturbation” did not involve ejaculation, because infant chimpanzees are unable to ejaculate. A similar behavior, *i.e.*, rubbing the penis against a piece of fruit (*e.g.*, orange peel), was reported for infant male orangutans in captivity (Harrison 1962). There are also some reported cases of captive or rehabilitant orangutans and chimpanzees stimulating their own genitals with tools (Dixson 2012).

Masturbation, or self-stimulation of one’s own sexual organs, is common among humans and nowadays is regarded as useful for healthy sexual development (Kaestle & Allen 2011). Various nonhuman primates are also known to masturbate (Thomsen *et al.* 2003; Dixson 2012; Thomsen & Sommer 2015); therefore, it may be a phylogenetically ancient behavior. However, there are relatively few studies that focus on masturbation among nonhuman primates in the wild (Thomsen & Soltis 2004). Male chimpanzees (*Pan troglodytes*) are known to stimulate their own penises. Although Goodall (1989) noted that captive chimpanzees sometimes ejaculate by stimulating their own penises, it had not been observed to result in ejaculation in the wild conspecifics at Gombe. Similarly, at Mahale, it is common for males to “fumble with penis,” but without it culminating in ejaculation (Nishida *et al.* 1999). Such fumbling of penis is done usually by hand (and sometimes by foot), but, thus far, I have found no reports of such penile-stimulating behaviors with tools, at least in wild chimpanzee populations.

OBSERVATION

The observation was made on the M group chimpanzees at the Mahale Mountains National Park, Tanzania (for the research site, see Nakamura *et al.* 2015). The “masturbation” event was recorded for a two-year old infant male named Peace, first born of Puffy (Figure 1). Puffy was born in the M group and has an elder maternal brother (*i.e.*, uncle to Peace), Primus, who is the current alpha male of the M group.

On September 15th 2016, I was conducting *ad libitum* observations by following a party of chimpanzees since morning. At 11:04 h, I saw Puffy and Peace descending to the rocky riverbed of the Kasiha Valley. Many chimpanzees of the M group were feeding on *Saba comorensis* and *Ficus vallis-choudae* fruits along the valley while they slowly moved downstream. The *Ficus* fruits are of-



Figure 1. Peace on the back of his mother, Puffy

ten eaten by wadging (*i.e.*, extracting juice by chewing and compressing the fruits; defined by Goodall 1989; see also Figure 2). After extracting the juice, the remainder is usually spat out as “a wadge.”

At 14:36 h, Primus and Puffy seemed to have finished feeding and started grooming each other on the riverbed, while Peace sat nearby (Figure 3). Then at 14:47 h, Peace picked up a wadge of *Ficus* discarded by Primus and applied it to his genital area, inserting his erect penis into it and thrusting several times (Figure 4; Video 1 available at <http://mahale.main.jp/PAN/2018/001.html>). He successively used several wadges. At 14:52 h, he copulated with an estrus adult female, Omo.

DISCUSSION

Probably, no one would doubt that so called “sex toys,” which some human males use for masturbation, are “tools” in the broader sense. The wadges into which



Figure 2. An adult male eating *Ficus vallis-choudae* fruits by wadging



Figure 3. Primus (left) and Puffy (right) grooming each other while Peace sits in front

Peace inserted his penis apparently have the same function with those of “sex toys” even though the wadges were not purposefully made for that function. The wadges had just been discarded; therefore, they seem to have had moderate warmth, moisture, and softness that may give more pleasurable stimuli than those made with a hand or with rubbing his penis against ground. The wadges are also manipulable objects and thus meet the criteria of animal “tools” (Shumaker *et al.* 2011).

According to Morris (1971), the word masturbation appears to be a corruption of *manu-stuprare*, or “to defile with the hand,” thus it primarily implies using a hand. Definitions of masturbation by macaque (*Macaca* spp.) males also include “manual rubbing” (Thomsen & Soltis 2004) or “manual manipulations” (Dubuc *et al.* 2013). However, these cases may simply reflect the use of a hand or hands being observed, and if we think of human and nonhuman ape masturbation using tools, the use of hand may not necessarily be a condition of the definition of masturbation.

Some may consider that male masturbation *potentially* leads to ejaculation (though it may sometimes end before ejaculation). The fact that discussions of male masturbation are often done in strong connection with sperm competition (Thomsen *et al.* 2003) also implies that ejaculation is thought of as a basic and fundamental component of this behavior. Although behavioral definitions of male primate masturbation do not usually require ejaculation to occur (Thomsen & Soltis 2004;

Dubuc *et al.* 2013), these studies clearly showed that the defined behaviors of these males did sometimes lead to ejaculation. On the other hand, in the case of Mahale chimpanzee males (including sexually mature ones), Nishida (2008) emphasizes that their penile fumbling “is not masturbation” because it completely lacks ejaculation. Considering that male masturbation requires ejaculation, as stated in the study by Nishida, the observed subject (Peace) cannot be stated to have masturbated.

Some authors say that it is inappropriate to call contact to/with sexual organs by infant primates as *sexual* (Mizuhara 1981). On the other hand, Takenoshita (2009) argues that some behaviors can be *sexual* even without ejaculation. It is difficult to discern whether or not an infant chimpanzee, which cannot ejaculate, had *sexual* pleasure by stimulating his own penis. At least, when a chimpanzee infant male inserts his erect penis into the vagina of a female and thrusts it (without ejaculation), the behavior is called “copulation” (e.g., Hasegawa 1990), the same term used for a mature male’s almost identical sexual behavior. Hence, Peace’s behavior may be regarded as *sexual*, despite lacking ejaculation. Peace copulated with an estrous female following his behavior involving wadges; hence, it seems that motivation underlying this behavior might have been similar to that underlying copulation with a female.

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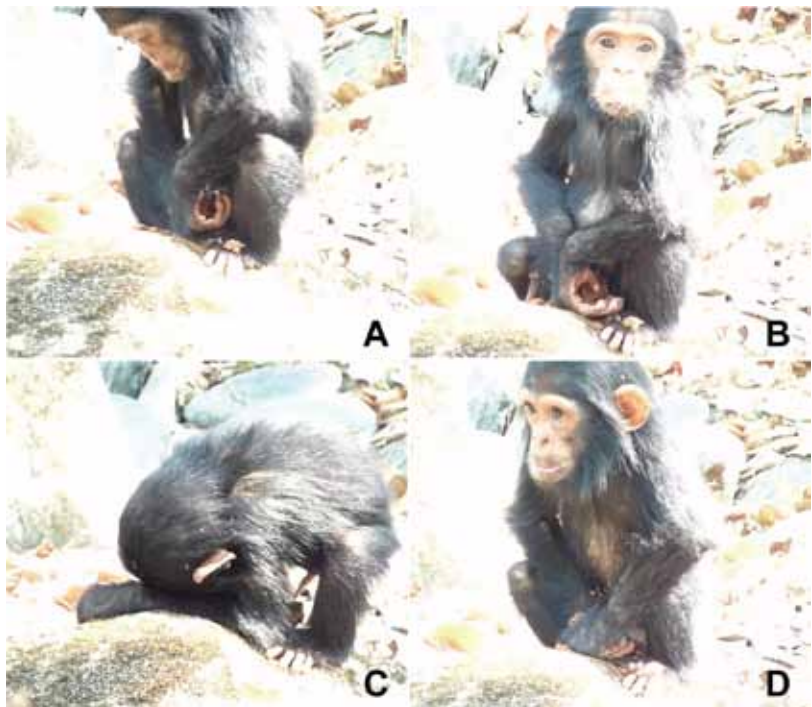


Figure 4. Peace inserting his penis into a wadge and thrusting (still images taken from video)

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